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ATTORNEY DOCKET NO. CONFIR APPLICATION NO. FILING DATE FIRST NAMED INVENTOR Philip Allen Karau DP-307772 10/662,099 09/12/2003 **EXAMINER** 22851 07/12/2004 KWON, JOHN DELPHI TECHNOLOGIES, INC. M/C 480-410-202 ART UNIT PAPER NUMBER PO BOX 5052 TROY, MI 48007 3747

DATE MAILED: 07/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Action Summary	10/662,099	KARAU ET AL.
	Examiner	Art Unit
	John T. Kwon	3747
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with	n the correspondence address
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIOI - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. t.1.136(a). In no event, however, may a repreply within the statutory minimum of thirty (ind will apply and will expire SIX (6) MONTH tute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on _	·	
,	his action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-19</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	d/or election requirement.	
Application Papers		
9) The specification is objected to by the Examiner.		
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
11) I he oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. §	119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority documents have been received.		
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 		
_ ·		eceived in this National Stage
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.		
	not of the contined copies not it	0001704.
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Su	ımmary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date	/08) 5) Notice of Inf	formal Patent Application (PTO-152) -

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 6, 9, 10-13, 15-17, and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Karau (US 6 520 166).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-5, 7, 8, 14, 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Karau (US 6 520 166). Karau discloses a means for detecting /measuring an ionization signal of at least one combustion event in at least one cylinder of the internal combustion engine during initial engine operation, determining at least one index of combustion quality based upon the ionization signal and, compensating at least one engine control parameter during the initial engine operation

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based upon the at least one index of combustion quality (Col. 1, lines 30-40). The differences between the prior art reference and the instant invention are measuring the temperature of the intake valve, timing for the engine crank, adjusting pulse width, as well as using such parasite engine load and the glow plug. It would have been considered to be an obvious choice of mechanical design because one skilled in this art is familiar with basic control mechanic and normally has the laboratory test facilities. To optimize or select the suitable devices/conditions would be within the ability of ordinary skilled in this art.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John T. Kwon whose telephone number is (703) 308-1046. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on (703) 308-1946. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7766.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

John T. Kwon

Primary Examiner

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